

KUBOTA Corporation

EXECUTIVE ORDER U-R-025-0840

New Off-Road Compression-Ignition Engines

Pursuant to the authority vested in California Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-14-012;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)	
2019	KKBXL03.3EMD	3.331	. Diesel	8000	
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS		TYPICAL EQUIPMENT APPLICATION			
Electronic Direct Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, Exhaust Gas Recirculation, Diesel Oxidation Catalyst			Loader, Tractor, Other Industrial Equipment		

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for non-methane hydrocarbon (NMHC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED	EMISSION				EXHAUST (g/kw-l	nr)		OF	PACITY (%	6)
POWER	STANDARD		NMHC	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
37 ≤ kW < 56	Tier 4 Final	STD	N/A	N/A	4.7	5.0	0.03	N/A	N/A	N/A
		CERT			3.6	0.5	0.01			

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this

_ day of November 2018.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

Engine Model Summary Form

Manufacturer:

KUBOTA Corporation

Engine category:

Nonroad CI

EPA Engine Family: KKBXL03.3EMD

Mfr Family Name:

N/A

Process Code:

New Submission

Attachment page 1 of 1

E0# U-R-0>5-0840 Date: 10/25/2018

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
D3.3M-CR-TI-EF02	D3.3M-CR-TI-EF	73.2@2600	49.4	28.7	192.6@1500	56.7	19.0	EM, DFI, TC, EGR, CAC, ECM, DOC
V3307-CR-TI-EF01	V3307-CR-TI-EF	73.2@2200	55.7	27.4	212.2@1500	63.7	21.4	EM, DFI, TC, EGR, CAC, ECM, DOC
V3307-CR-TI-EF02	V3307-CR-TI-EF	73.2@2600	49.4	28.7	192.6@1500	56.7	19.0	EM, DFI, TC, EGR, CAC, ECM, DOC
V3307-CR-TI-EF03	V3307-CR-TI-EF	73.2@2400	51.8	27.8	192.6@1500	56.7	19.0	EM, DFI, TC, EGR, CAC, ECM, DOC
V3307-CR-TI-EF04	V3307-CR-TI-EF	73.2@2200	54.9	27.0	192.6@1500	56.7	19.0	EM, DFI, TC, EGR, CAC, ECM, DOC
V3307-CR-TI-EF05	V3307-CR-TI-EF	66.1@2300	49.2	25.3	167.1@1500	50.2	16.8	EM, DFI, TC, EGR, CAC, ECM, DOC